


Engineer: Chris Samios	Date: 3/11/04	 <b>JPS Communications</b> 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 3/11/04				
Approved: Jack Curtis	Date: 3/11/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 3/11/04	Size: A	Dwg. #: <b>5961-271176-APP</b>	Rev: <b>A</b>	Sheet: 1            Of    1

**APPLIES TO:**

Kenwood TK-760 VHF Mobile Radio  
Kenwood TK-860 VHF Mobile Radio

**RADIO MODIFICATIONS:**

1. Radio must have Kenwood Accessory Cable KCT-19 installed.

**RADIO PROGRAMMING:**

1. Mobile radios should normally be programmed for low transmit power.

**RADIO CONTROLS:**

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio.

**CABLING:**

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291174	(5961-271174 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281174	(5961-271174 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271174	
RF Connector Type		

**DSP JUMPERS:**

JP1	Hi Impedance
JP2	Unbalanced

**DSP PROGRAMMING:**

RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	COR	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

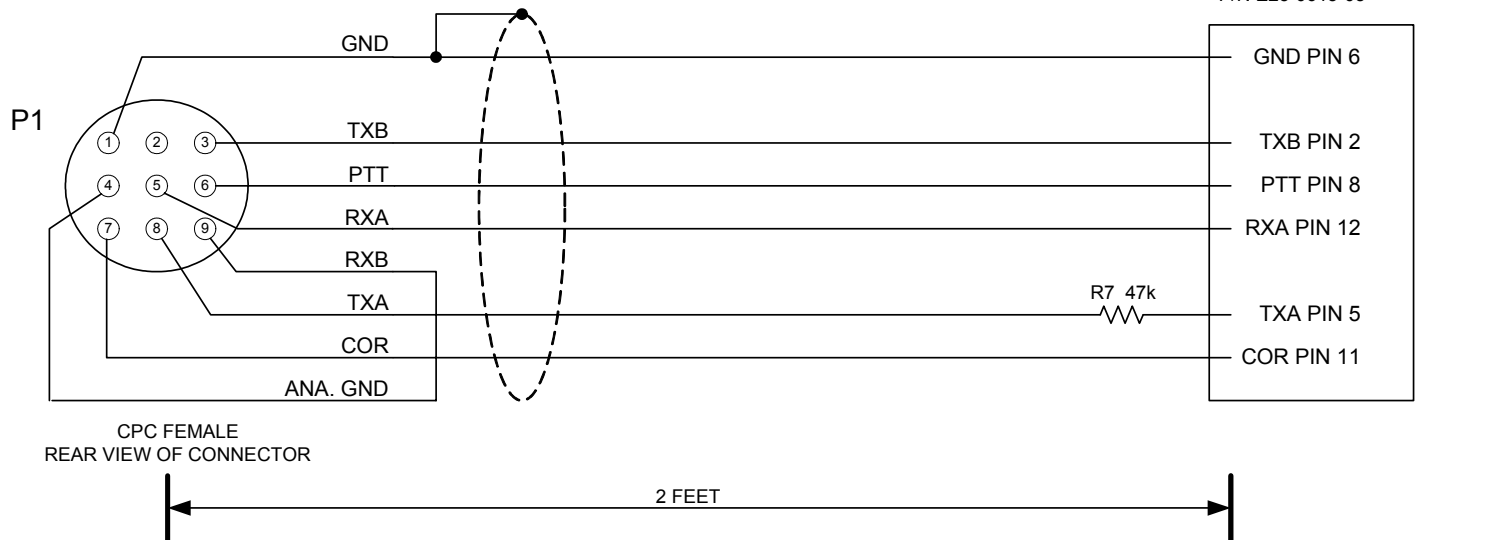
(\* Indicates Default Value)

**NOTES:**

# PURCHASED PART

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USE MOLDED CABLE  
(JPS P/N 5961-261003-00)



COMPONENT PCB  
(JPS P/N 5961-271000)

R7 JPS P/N 1820-473000  
JU1  
JU4  
JU6

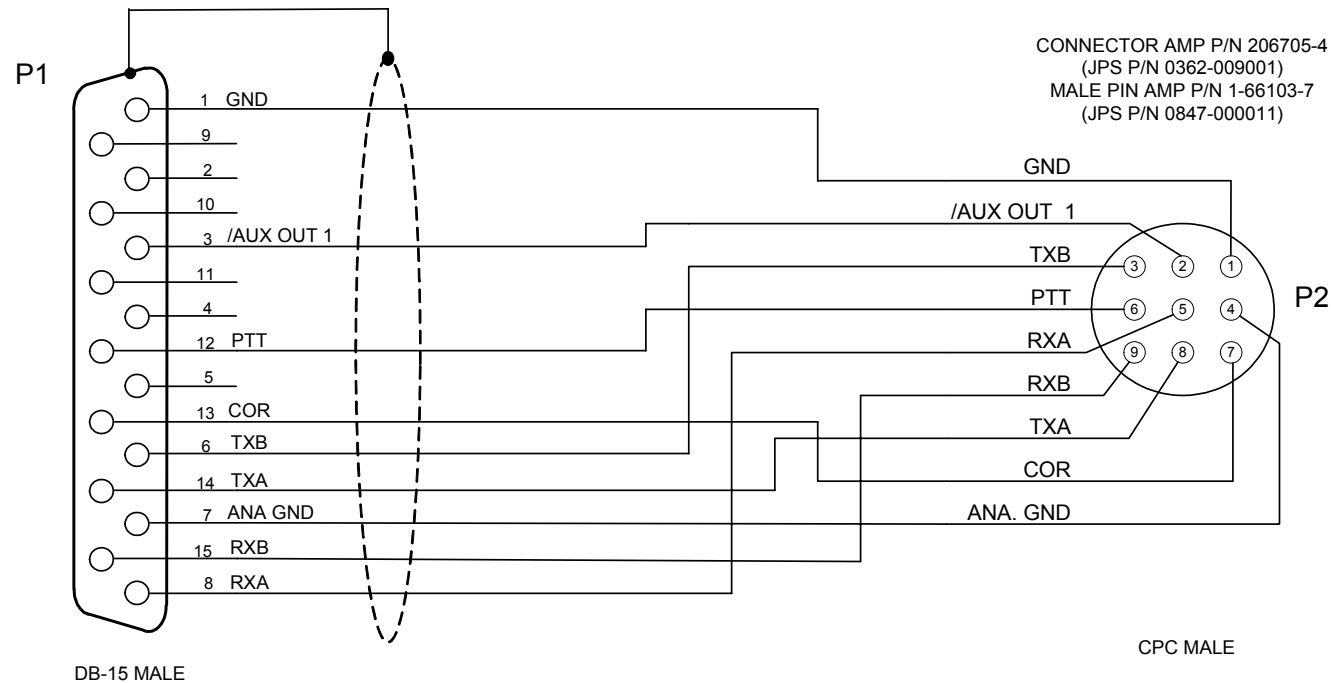
NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:  
KENWOOD TK-760 MOBILE  
KENWOOD TK-860 MOBILE

Designed By: CTS	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By: EDV	Title CABLE, CPC TO KENWOOD TK-860		
Checked By: JAC	Size A	Document Number <b>5961-271176</b>	Rev A
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- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

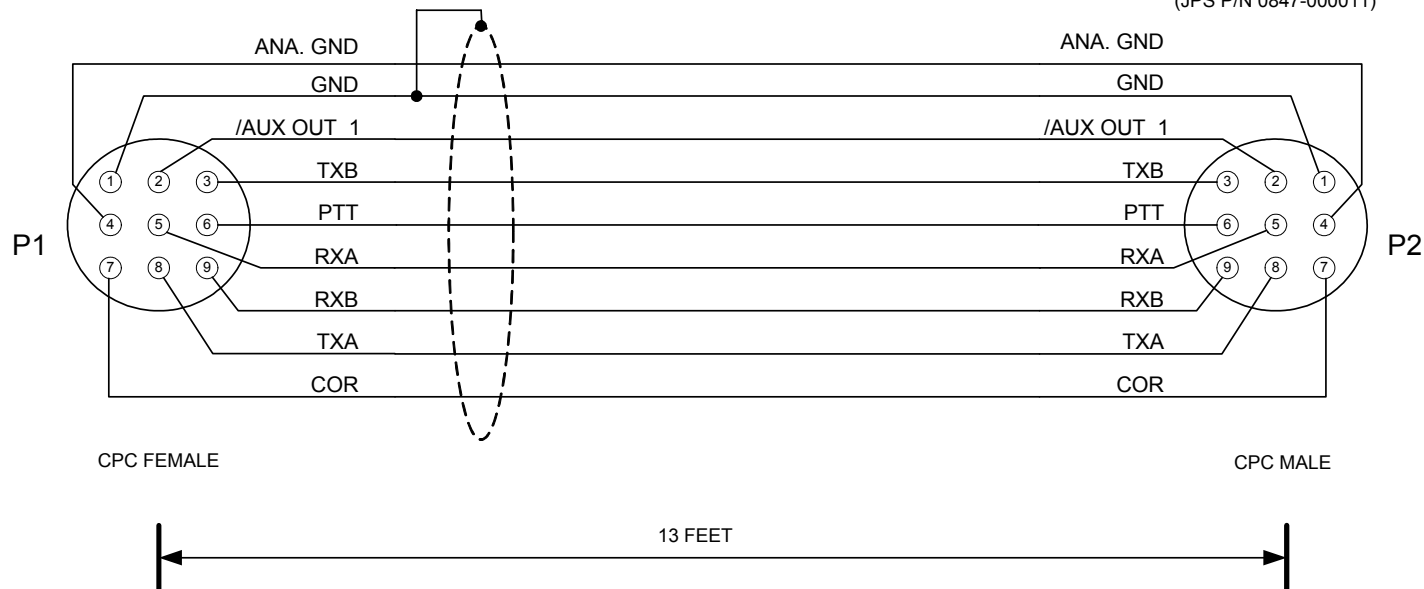
Designed By: JAC	<b>Raytheon JPS Communications</b>		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number <b>5961-261002-00</b>	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
A		

## PURCHASED PART

CONNECTOR AMP P/N 206708-1  
(JPS P/N 0362-005003)  
FEMALE PIN AMP P/N 1-66105-8  
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4  
(JPS P/N 0362-009001)  
MALE PIN AMP P/N 1-66103-7  
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number <b>5961-281013-00</b>	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	